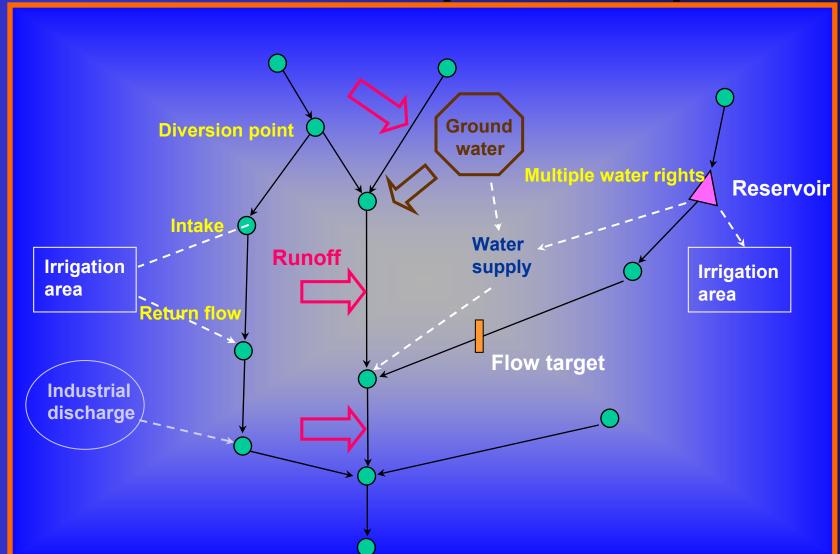


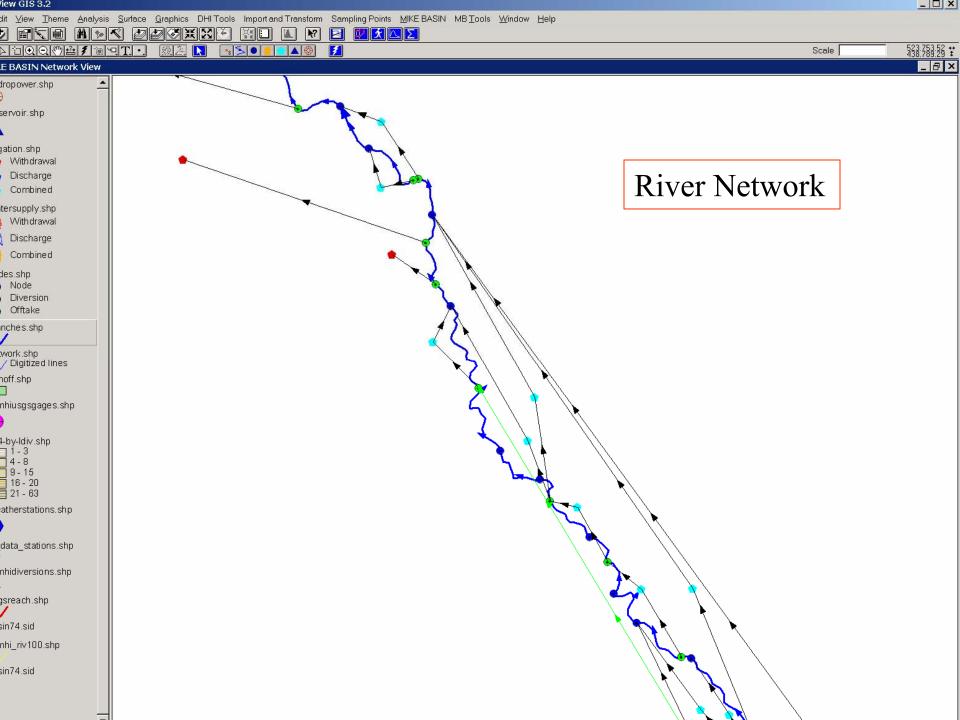


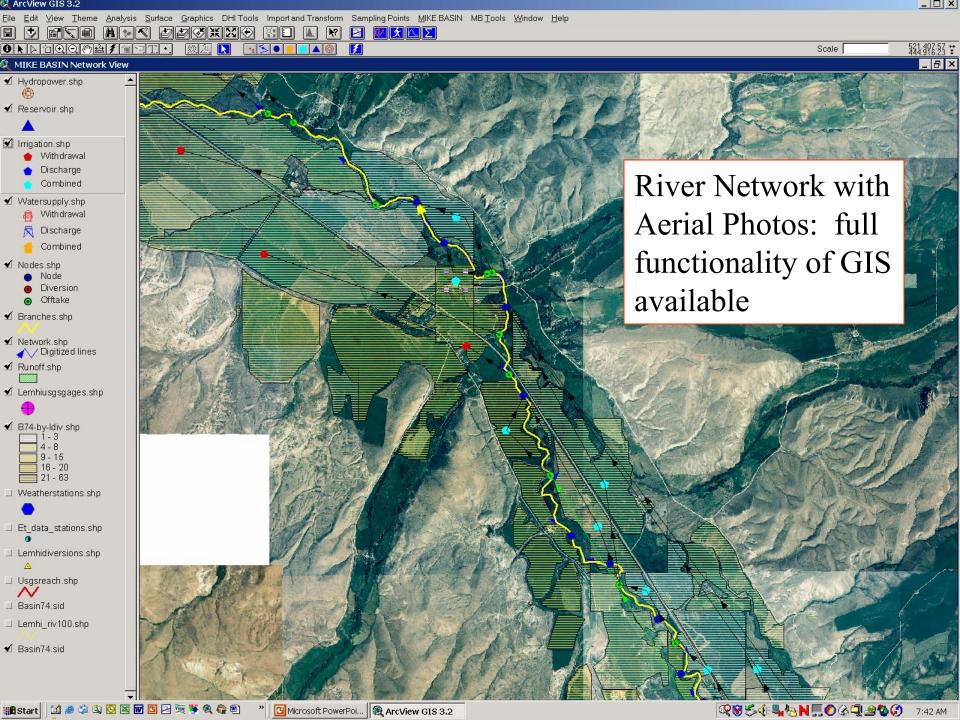


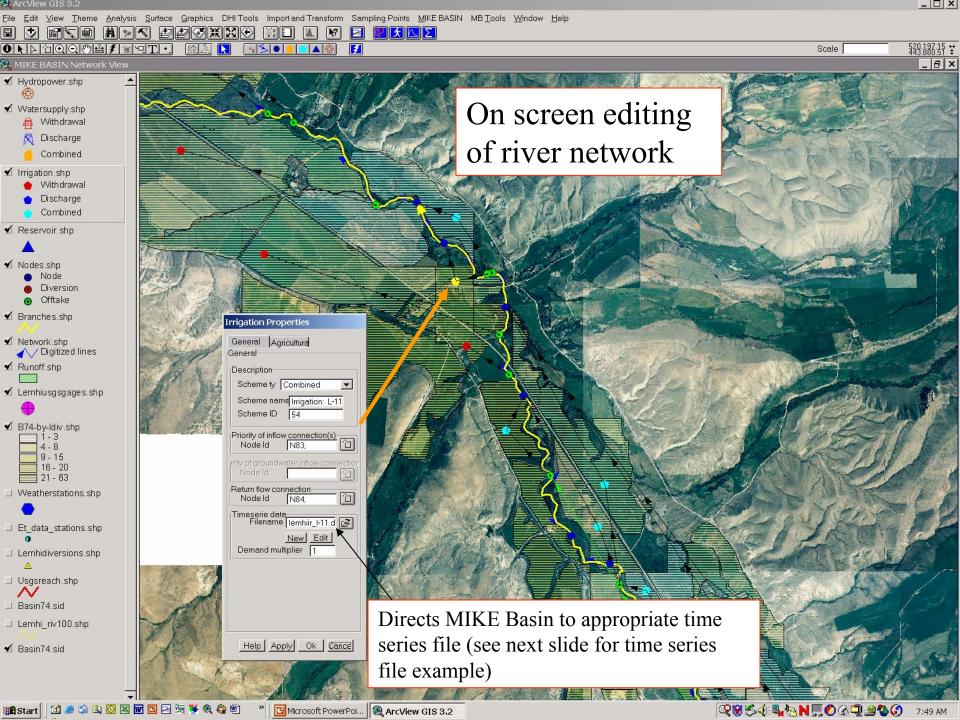


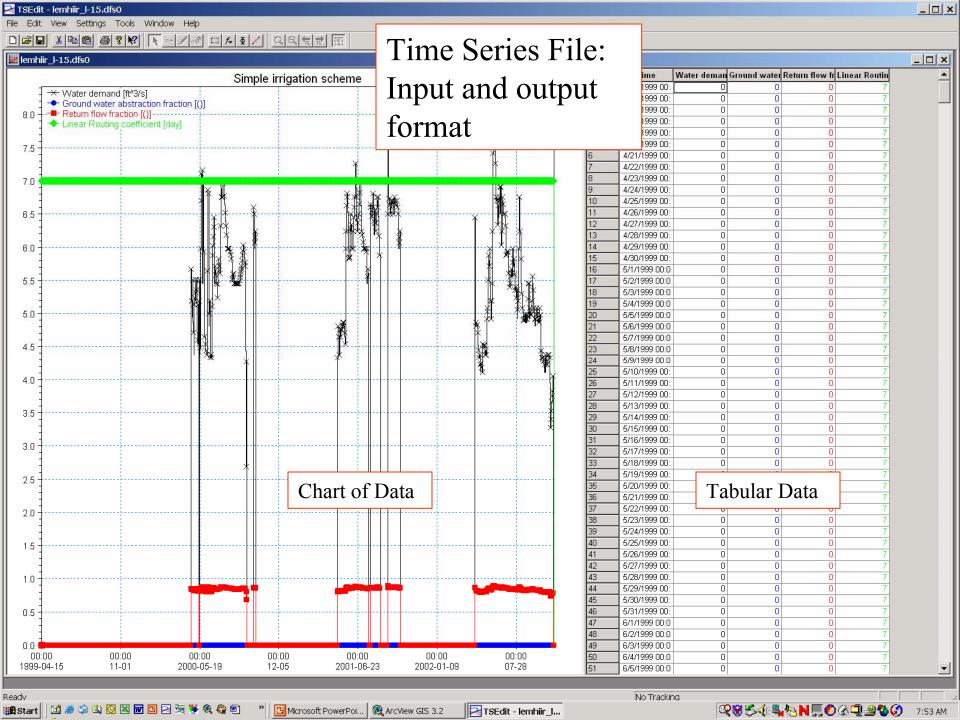
MIKE Basin: A Simple Concept

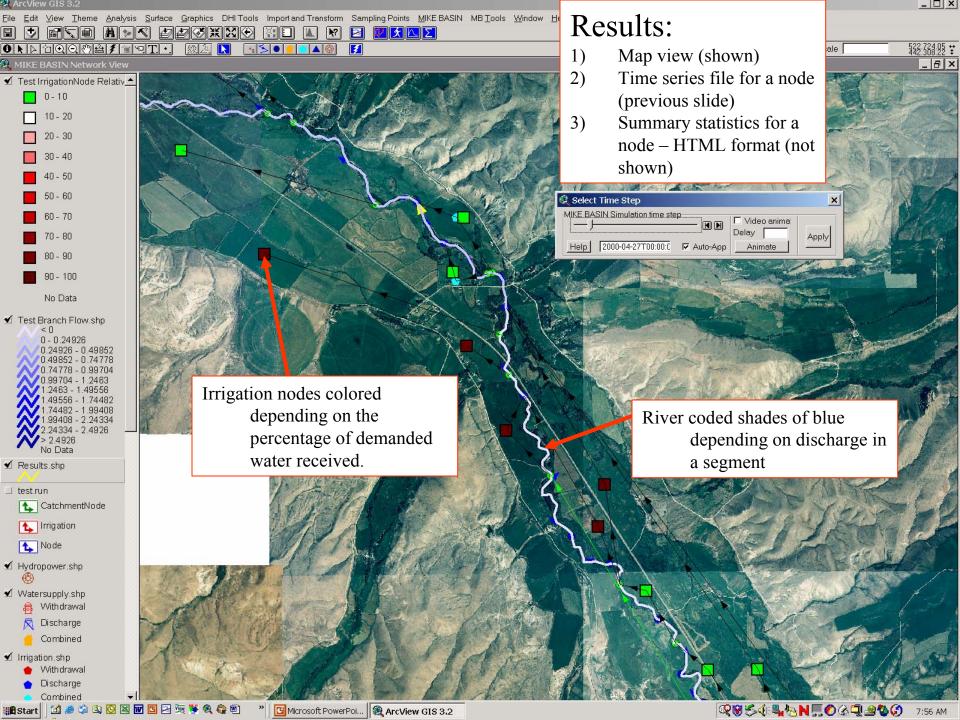


















Thousand Springs MIKE Basin Model (TSMBM): Objectives

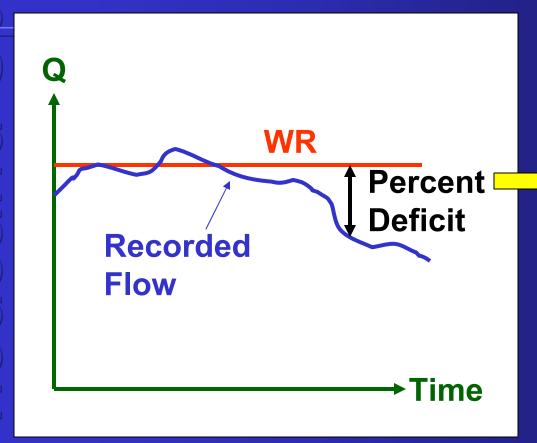
- Understand water movement around Thousands Springs
- Illustrate historic unmet water rights demands
- Compile geographic and hydrologic data
 - GIS
 - Water movement
 - Flow measurement
 - Meteorological
- Identify data gaps

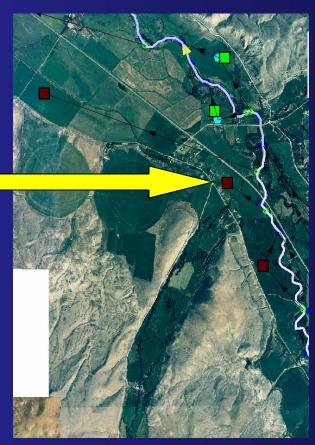






TSMBM: Comparing Recorded Water Distribution with WR











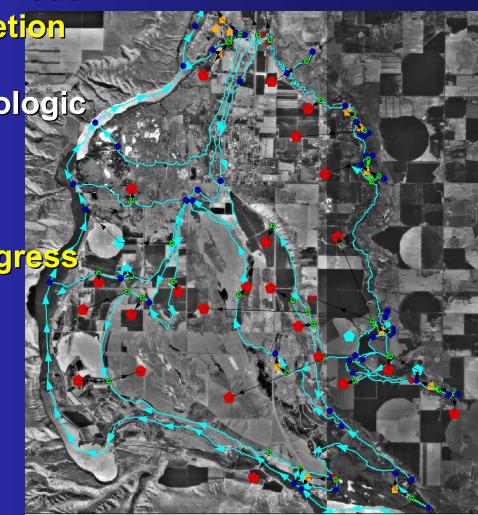
TSMBM: Model Procedure

 Model Set Up: Set up model network nearing completion

 Accumulation of Hydrologic Data: in progress

 Format/Population of Hydrologic Data: in progres

- Calibration:
- Verification









TSMBM: Model Network

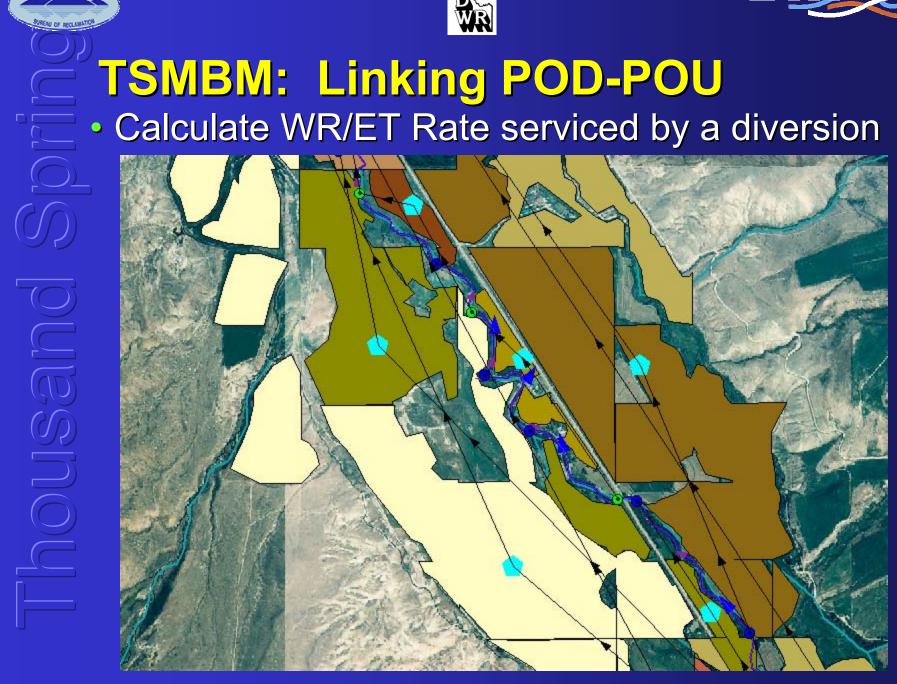
 Study Area: north side of Snake River below the canyon rim from Blue Lakes to King Hill.

- Nodes (so far)
 - 35 Irrigation nodes
 - 18 DCMI nodes (hatcheries)
 - 15 Runoff basins (springs)
 - 11 Ditches

Concentrate on the Billingsley
 Creek and Curren Ditch





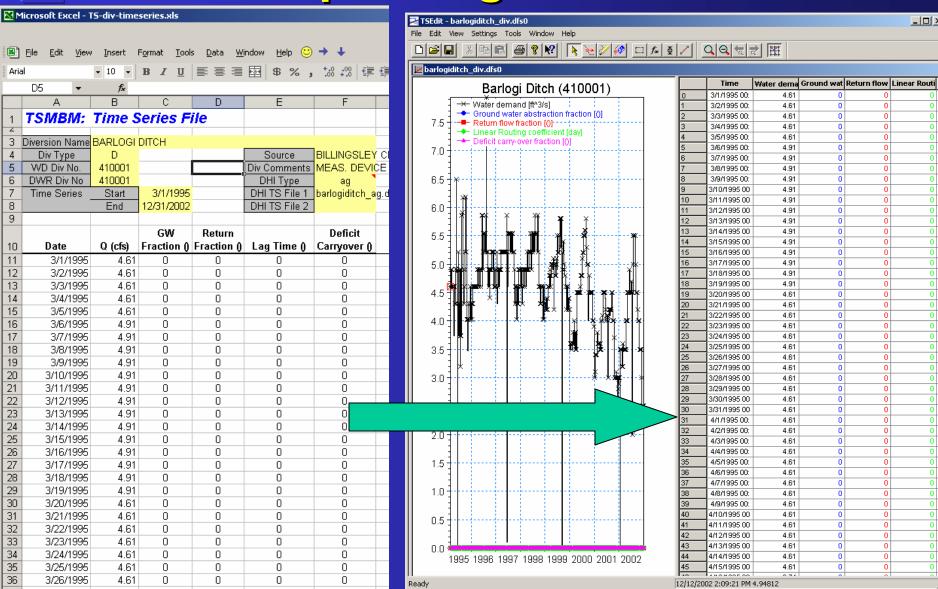








TSMBM: Populating Model with Data





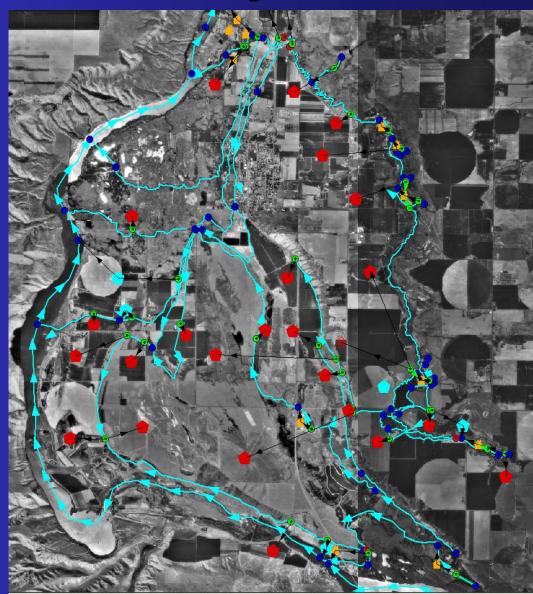




TSMBM: Data Availability

Beginning Date

	% Time
Year	Series
1995	14.3
1996	71.4
1997	0.0
1998	4.3
1999	7.1
2000	2.9

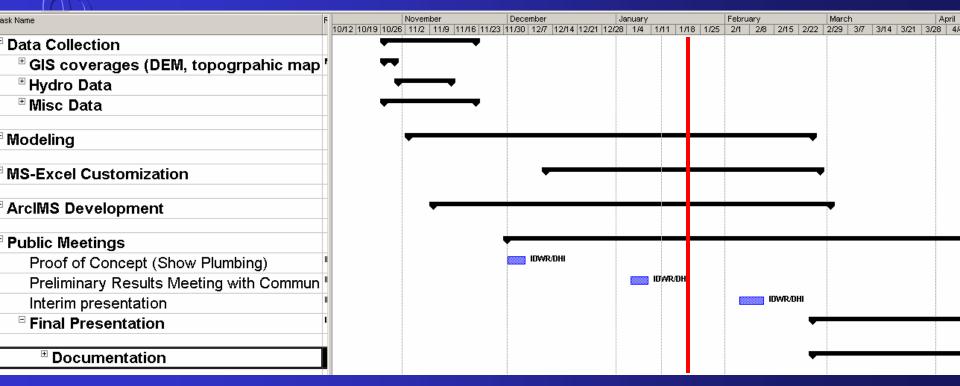








TSMBM: Schedule









TSMBM: To Do

Remaining in the project

- Finish model network and data population
- Calibration
- Evaluate historic allocation vs. WR
- ArcIMS development







TSMBM: Future Development

Beyond the project

- Extend the model to entire study area
- Distribute water according to water rights for "what-if' scenarios
- Eventually link to groundwater model







Conclusion

- An integrated depiction of water availability, movement, and use that can be viewed directly on GIS maps
- A surface water model to examine unmet WR demands
- Compilation of hydrologic data from numerous sources in one convenient place, posted to web
- Identification of data deficiencies to more efficiently guide expenditures for future data collection efforts
 Contact:

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